




ATC SITE NUMBER: 9097

T-MOBILE SITE NUMBER: SL04748B

SITE ADDRESS: OFF OF 12TH STREET;
SECTION 18, TOWNSHIP 6 NORTH
RANGE 3 WEST, SALT I
OGDEN, UT 84404-9760

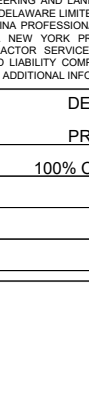
T-MOBILE MICROWAVE PLAN
MW RECIPIENT FROM: SL01312A





AMERICAN TOWER®

PLANS PREPARED BY:



326 TRYON ROAD
RALEIGH, NC 27603-3530
OFFICE: (919) 661-6351
www.tepgroup.net

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REV.	DESCRIPTION	BY	DATE
A	PRELIMINARY	DMB	07/09/25
0	100% CONSTRUCTION	RMJ	08/08/25


ATC SITE NUMBER:
9097

ATC SITE NAME:
OGDEN - I-15

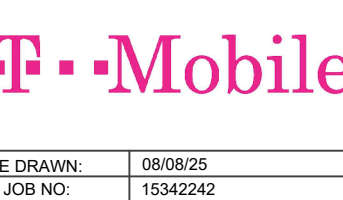
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OGDEN, UT 84404-9760

TEP OPCO, LLC



SEAL: 08/08/25



DATE DRAWN:	08/08/25
ATC JOB NO:	15342242
CUSTOMER NAME:	SL04748B
CUSTOMER ID:	SL04748B

TITLE SHEET

SHEET NUMBER:	REVISION:
G-001	0

GENERAL CONSTRUCTION NOTES:

1. OWNER FURNISHED MATERIALS, T-MOBILE "THE COMPANY" WILL PROVIDE AND THE CONTRACTOR WILL INSTALL
- A. BTS EQUIPMENT FRAME (PLATFORM) AND ICEBRIDGE SHELTER (GROUND BUILD/CO-LOCATE ONLY)

B. AC/TELCO INTERFACE BOX (PPC)

C. ICE BRIDGE (CABLE TRAY WITH COVER) (GROUND BUILD/CO-LOCATE ONLY, GC TO FURNISH AND INSTALL FOR ROOFTOP INSTALLATION)

D. TOWERS, MONOPOLES

E. TOWER LIGHTING

F. GENERATORS & LIQUID PROPANE TANK

G. ANTENNA STANDARD BRACKETS, FRAMES AND PIPES FOR MOUNTING

H. ANTENNAS (INSTALLED BY OTHERS)

I. TRANSMISSION LINE

J. TRANSMISSION LINE JUMPERS

K. TRANSMISSION LINE CONNECTORS WITH WEATHERPROOFING KITS

L. TRANSMISSION LINE GROUND KITS

M. HANGERS

N. HOISTING GRIPS

O. BTS EQUIPMENT
2. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL OTHER MATERIALS FOR THE COMPLETE INSTALLATION OF THE SITE INCLUDING, BUT NOT LIMITED TO, SUCH MATERIALS AS FENCING, STRUCTURAL STEEL SUPPORTING SUB-FRAME FOR PLATFORM, ROOFING LABOR AND MATERIALS, GROUNDING RINGS, GROUNDING WIRES, COPPER-CLAD OR XIT CHEMICAL GROUND ROD(S), BUSS BARS, TRANSFORMERS AND DISCONNECT SWITCHES WHERE APPLICABLE, TEMPORARY ELECTRICAL POWER, CONDUIT, LANDSCAPING COMPOUND STONE, CRANES, CORE DRILLING, SLEEPERS AND RUBBER MATTING, REBAR, CONCRETE CAISSONS, PADS AND/OR AUGER MOUNTS, MISCELLANEOUS FASTENERS, CABLE TRAYS, NON-STANDARD ANTENNA FRAMES AND ALL OTHER MATERIAL AND LABOR REQUIRED TO COMPLETE THE JOB ACCORDING TO THE DRAWINGS AND SPECIFICATIONS. IT IS THE POSITION OF T-MOBILE TO APPLY FOR PERMITTING AND CONTRACTOR RESPONSIBLE FOR PICKUP AND PAYMENT OF REQUIRED PERMITS.
3. ALL WORK SHALL CONFORM TO ALL CURRENT APPLICABLE FEDERAL, STATE, AND LOCAL CODES, INCLUDING ANSI/EIA/TIA-222, AND COMPLY WITH ATC CONSTRUCTION SPECIFICATIONS.
4. CONTRACTOR SHALL CONTACT LOCAL 811 FOR IDENTIFICATION OF UNDERGROUND UTILITIES PRIOR TO START OF CONSTRUCTION.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL REQUIRED INSPECTIONS.
6. ALL DIMENSIONS TO, OF, AND ON EXISTING BUILDINGS, DRAINAGE STRUCTURES, AND SITE IMPROVEMENTS SHALL BE VERIFIED IN FIELD BY CONTRACTOR WITH ALL DISCREPANCIES REPORTED TO THE ENGINEER.
7. DO NOT CHANGE SIZE OR SPACING OF STRUCTURAL ELEMENTS.
8. DETAILS SHOWN ARE TYPICAL; SIMILAR DETAILS APPLY TO SIMILAR CONDITIONS UNLESS OTHERWISE NOTED.
9. THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY WHICH SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
10. CONTRACTOR SHALL BRACE STRUCTURES UNTIL ALL STRUCTURAL ELEMENTS NEEDED FOR STABILITY ARE INSTALLED. THESE ELEMENTS ARE AS FOLLOWS: LATERAL BRACING, ANCHOR BOLTS, ETC.
11. CONTRACTOR SHALL DETERMINE EXACT LOCATION OF EXISTING UTILITIES, GROUNDS DRAINS, DRAIN PIPES, VENTS, ETC. BEFORE COMMENCING WORK.
12. INCORRECTLY FABRICATED, DAMAGED, OR OTHERWISE MISFITTING OR NONCONFORMING MATERIALS OR CONDITIONS SHALL BE REPORTED TO THE T-MOBILE REP PRIOR TO REMEDIAL OR CORRECTIVE ACTION. ANY SUCH REMEDIAL ACTION SHALL REQUIRE WRITTEN APPROVAL BY THE T-MOBILE REP PRIOR TO PROCEEDING.
13. EACH CONTRACTOR SHALL COOPERATE WITH THE T-MOBILE REP, AND COORDINATE HIS WORK WITH THE WORK OF OTHERS.
14. CONTRACTOR SHALL REPAIR ANY DAMAGE CAUSED BY CONSTRUCTION OF THIS PROJECT TO MATCH EXISTING PRE-CONSTRUCTION CONDITIONS TO THE SATISFACTION OF THE T-MOBILE CONSTRUCTION MANAGER.
15. ALL CABLE/CONDUIT ENTRY/EXIT PORTS SHALL BE WEATHERPROOFED DURING INSTALLATION USING A SILICONE SEALANT.
16. WHERE EXISTING CONDITIONS DO NOT MATCH THOSE SHOWN IN THIS PLAN SET, CONTRACTOR SHALL NOTIFY THE T-MOBILE REP AND ENGINEER OF RECORD IMMEDIATELY.
17. CONTRACTOR SHALL ENSURE ALL SUBCONTRACTORS ARE PROVIDED WITH A COMPLETE AND CURRENT SET OF DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT.
18. CONTRACTOR SHALL REMOVE ALL RUBBISH AND DEBRIS FROM THE SITE AT THE END OF EACH DAY.
19. CONTRACTOR SHALL COORDINATE WORK SCHEDULE WITH AMERICAN TOWER CORPORATION (ATC) AND TAKE PRECAUTIONS TO MINIMIZE IMPACT AND DISRUPTION OF OTHER OCCUPANTS OF THE FACILITY.
20. CONTRACTOR SHALL FURNISH T-MOBILE AND AMERICAN TOWER CORPORATION (ATC) WITH A PDF MARKED UP AS-BUILT SET OF DRAWINGS UPON COMPLETION OF WORK.
21. PRIOR TO SUBMISSION OF BID, CONTRACTOR SHALL COORDINATE WITH T-MOBILE REP TO DETERMINE WHAT, IF ANY, ITEMS WILL BE PROVIDED. ALL ITEMS NOT PROVIDED SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR. CONTRACTOR WILL INSTALL ALL ITEMS PROVIDED.

22. PRIOR TO SUBMISSION OF BID, CONTRACTOR SHALL COORDINATE WITH T-MOBILE REP TO DETERMINE IF ANY PERMITS WILL BE OBTAINED BY CONTRACTOR. ALL REQUIRED PERMITS NOT OBTAINED BY T-MOBILE MUST BE OBTAINED, AND PAID FOR, BY THE CONTRACTOR.
23. CONTRACTOR SHALL INSTALL ALL SITE SIGNAGE IN ACCORDANCE WITH T-MOBILE SPECIFICATIONS AND REQUIREMENTS.
24. CONTRACTOR SHALL SUBMIT ALL SHOP DRAWINGS TO T-MOBILE FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
25. ALL EQUIPMENT SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND LOCATED ACCORDING TO T-MOBILE SPECIFICATIONS, AND AS SHOWN IN THESE PLANS.
26. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED HEREIN. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
27. CONTRACTOR SHALL NOTIFY T-MOBILE REP A MINIMUM OF 48 HOURS IN ADVANCE OF POURING CONCRETE OR BACKFILLING ANY UNDERGROUND UTILITIES, FOUNDATIONS OR SEALING ANY WALL, FLOOR OR ROOF PENETRATIONS FOR ENGINEERING REVIEW AND APPROVAL.
28. WHEN THE PROJECT SCOPE REQUIRES THE USE OF THE SAFETY CLIMB, THE GENERAL CONTRACTOR SHALL ENSURE THE SAFETY CLIMB IS FREE OF OBSTRUCTIONS, NOT RUBBING ON OR TRAPPED BY ANY INSTALLED CUSTOMER EQUIPMENT, IS VISUALLY TAUT, MEETS MANUFACTURER INSTALLATION SPECIFICATIONS, AND IS FIRMLY SECURED AT ALL CABLE GUIDE LOCATIONS UPON PROJECT COMPLETION.
29. COMPLETION OF PROJECT SHALL NOT OBSTRUCT, TRAP, LOOSEN, OR OTHERWISE CAUSE FAILURE TO MEET MANUFACTURER INSTALLATION REQUIREMENTS FOR THE SAFETY CLIMB.
30. CONTRACTOR SHALL BE RESPONSIBLE FOR SITE SAFETY INCLUDING COMPLIANCE WITH ALL APPLICABLE OSHA STANDARDS AND RECOMMENDATIONS AND SHALL PROVIDE ALL NECESSARY SAFETY DEVICES INCLUDING PPE AND PPM AND CONSTRUCTION DEVICES SUCH AS WELDING AND FIRE PREVENTION, TEMPORARY SHORING, SCAFFOLDING, TRENCH BOXES/SLOPING, BARRIERS, ETC.
31. THE CONTRACTOR SHALL PROTECT AT HIS OWN EXPENSE, ALL EXISTING FACILITIES AND SUCH OF HIS NEW WORK LIABLE TO INJURY DURING THE CONSTRUCTION PERIOD. ANY DAMAGE CAUSED BY NEGLECT ON THE PART OF THIS CONTRACTOR OR HIS REPRESENTATIVES, OR BY THE ELEMENTS DUE TO NEGLECT ON THE PART OF THIS CONTRACTOR OR HIS REPRESENTATIVES, EITHER TO THE EXISTING WORK, OR TO HIS WORK OR THE WORK OF ANY OTHER CONTRACTOR, SHALL BE REPAIRED AT HIS EXPENSE TO THE OWNER'S SATISFACTION.
32. ALL WORK SHALL BE INSTALLED IN A FIRST CLASS, NEAT AND WORKMANLIKE MANNER BY MECHANICS SKILLED IN THE TRADE INVOLVED. THE QUALITY OF WORKMANSHIP SHALL BE SUBJECT TO THE APPROVAL OF THE T-MOBILE REP. ANY WORK FOUND BY THE T-MOBILE REP TO BE OF INFERIOR QUALITY AND/OR WORKMANSHIP SHALL BE REPLACED AND/OR REWORKED AT CONTRACTOR EXPENSE UNTIL APPROVAL IS OBTAINED.
33. IN ORDER TO ESTABLISH STANDARDS OF QUALITY AND PERFORMANCE, ALL TYPES OF MATERIALS LISTED HEREINAFTER BY MANUFACTURER'S NAMES AND/OR MANUFACTURER'S CATALOG NUMBER SHALL BE PROVIDED BY THESE MANUFACTURERS AS SPECIFIED.
34. T-MOBILE FURNISHED EQUIPMENT SHALL BE PICKED-UP AT THE T-MOBILE WAREHOUSE, NO LATER THAN 48HR AFTER BEING NOTIFIED INSURED, STORED, UNCRATE, PROTECTED AND INSTALLED BY THE CONTRACTOR WITH ALL APPURTENANCES REQUIRED TO PLACE THE EQUIPMENT IN OPERATION, READY FOR USE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE EQUIPMENT AFTER PICKING IT UP.
35. T-MOBILE OR HIS ARCHITECT/ENGINEER RESERVES THE RIGHT TO REJECT ANY EQUIPMENT OR MATERIALS WHICH, IN HIS OWN OPINION ARE NOT IN COMPLIANCE WITH THE CONTRACT DOCUMENTS, EITHER BEFORE OR AFTER INSTALLATION AND THE EQUIPMENT SHALL BE REPLACED WITH EQUIPMENT CONFORMING TO THE REQUIREMENTS OF THE CONTRACT DOCUMENTS BY THE CONTRACTOR AT NO COST TO T-MOBILE OR THEIR ARCHITECT/ENGINEER.

SPECIAL CONSTRUCTION

ANTENNA INSTALLATION NOTES:

1. WORK INCLUDED:
- A. ANTENNA AND COAXIAL CABLES ARE FURNISHED BY T-MOBILE UNDER A SEPARATE CONTRACT. THE CONTRACTOR SHALL ASSIST ANTENNA INSTALLATION CONTRACTOR IN TERMS OF COORDINATION AND SITE ACCESS. ERECTION SUBCONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF PERSONNEL.

B. INSTALL ANTENNAS AS INDICATED ON DRAWINGS AND T-MOBILE SPECIFICATIONS.

C. INSTALL GALVANIZED STEEL ANTENNA MOUNTS AS INDICATED ON DRAWINGS.

D. INSTALL FURNISHED GALVANIZED STEEL OR ALUMINUM WAVEGUIDE.

E. CONTRACTOR SHALL PROVIDE FOUR (4) SETS OF SWEEP TESTS USING ANRITZU-PACKARD 8713B RF SCALAR NETWORK ANALYZER. SUBMIT FREQUENCY DOMAIN REFLECTOMETER(FDR) TESTS RESULTS TO THE PROJECT MANAGER. SWEEP TESTS SHALL BE AS PER ATTACHED RFS "MINIMUM FIELD TESTING RECOMMENDED FOR ANTENNA AND HELIAX COAXIAL CABLE SYSTEMS" DATED 10/5/93. TESTING SHALL BE PERFORMED BY AN INDEPENDENT TESTING SERVICE AND BE BOUND AND SUBMITTED WITHIN ONE WEEK OF WORK COMPLETION.

F. INSTALL COAXIAL CABLES AND TERMINATING BETWEEN ANTENNAS AND EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS. WEATHERPROOF ALL CONNECTIONS BETWEEN THE ANTENNA AND EQUIPMENT PER MANUFACTURER'S

REQUIREMENTS. TERMINATE ALL COAXIAL CABLE THREE (3) FEET IN EXCESS OF ENTRY PORT LOCATION UNLESS OTHERWISE STATED.

G. ANTENNA AND COAXIAL CABLE GROUNDING:

2. ALL EXTERIOR #6 GREEN GROUND WIRE "DAISY CHAIN" CONNECTIONS ARE TO BE WEATHER SEALED WITH RFS CONNECTORS/SPLICE WEATHERPROOFING KIT #221213 OR EQUAL.
3. ALL COAXIAL CABLE GROUNDING KITS ARE TO BE INSTALLED ON STRAIGHT RUNS OF COAXIAL CABLE (NOT WITHIN BENDS)

ALL DISCREPANCIES FROM WHAT IS SHOWN ON THESE CONSTRUCTION DRAWINGS SHALL BE COMMUNICATED TO ATC ENGINEERING IMMEDIATELY FOR CORRECTION OR RE-DESIGN. FAILURE TO COMMUNICATE DIRECTLY WITH ATC ENGINEERING OR ANY CHANGES FROM THE DESIGN CONDUCTED WITHOUT PRIOR APPROVAL FROM ATC ENGINEERING SHALL BE THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR.



PLANS PREPARED BY:

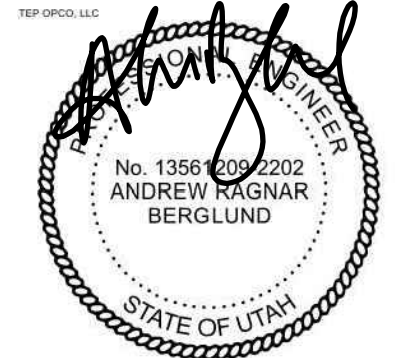


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B	100% CONSTRUCTION	RMJ	08/08/25

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9097
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OGDEN - I-15
T-MOBILE SITE NAME:
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SITE ADDRESS:
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SEAL: 08/08/25



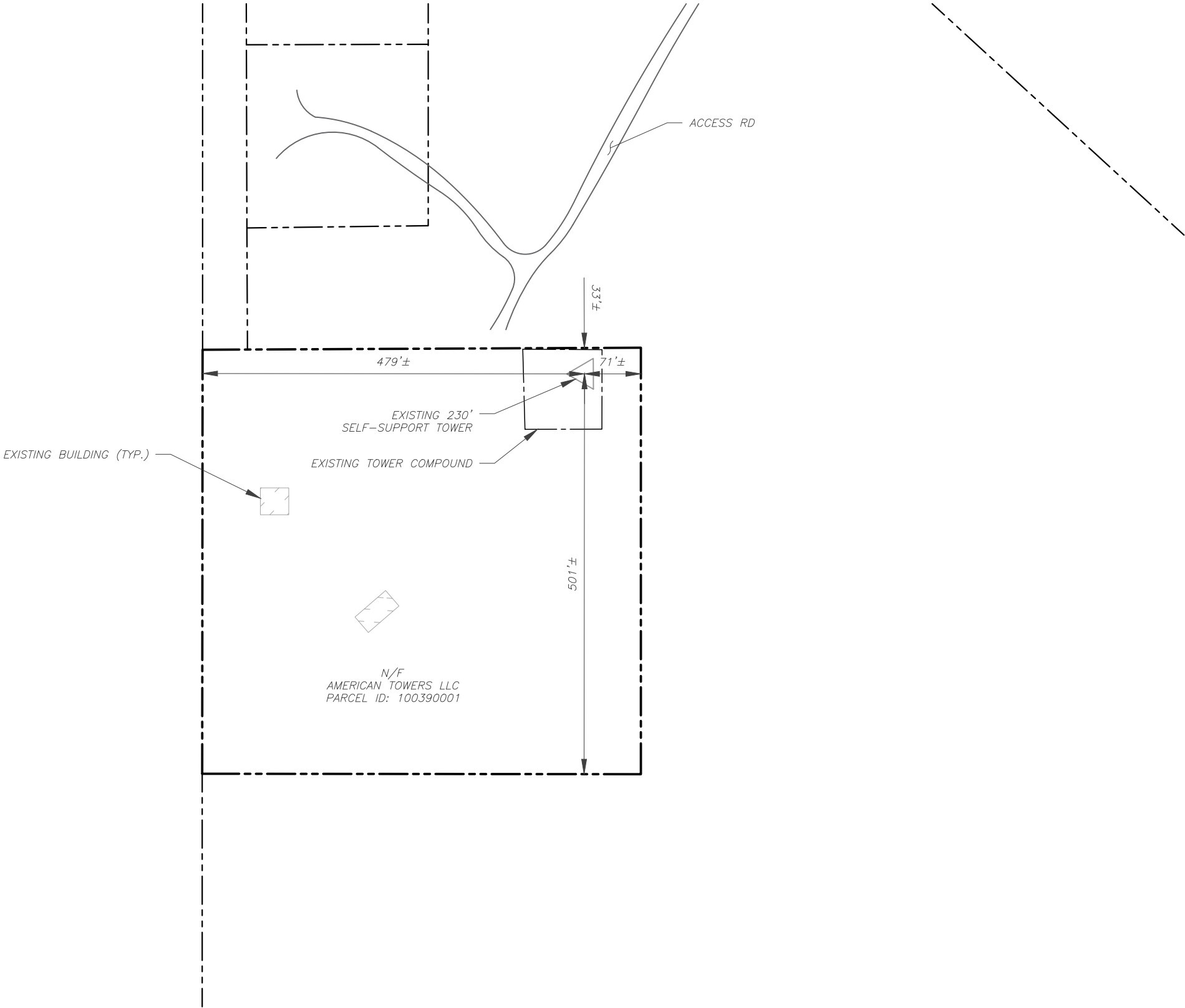
DATE DRAWN:	08/08/25
ATC JOB NO:	15342242
CUSTOMER NAME:	SL04748B
CUSTOMER ID:	SL04748B

GENERAL NOTES

SHEET NUMBER: G-002	REVISION: 0
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NOTES:

- BOUNDARY LINES OBTAINED FROM WEBER COUNTY ONLINE GIS.
- ZONING INFORMATION OBTAINED FROM WEBER COUNTY.
- THE TOWER IS LOCATED WITHIN ZONE "X," AREAS DETERMINED TO BE WITHIN THE 0.2% ANNUAL CHANCE FLOODPLAIN ACCORDING TO FEMA COMMUNITY PANEL #49057C0175F, DATED NOVEMBER 30, 2023.



LEGEND

EXISTING PROPERTY LINE

EXISTING ADJACENT PROPERTY LINE

EXISTING LEASE AREA

1 OVERALL SITE PLAN

SCALE: 1" = 150'

0150'300'

SCALE: 1"=150' (11X17)
1"=75' (22X34)

N

AMERICAN TOWER®

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TEP

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TEP OPCO, LLC

No. 13561209-2202
ANDREW RAGNAR
BERGLUND

STATE OF UTAH

SEAL:08/08/25

T-Mobile

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OVERALL SITE PLAN

SHEET NUMBER: C-001	REVISION: 0
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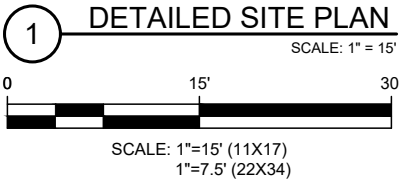
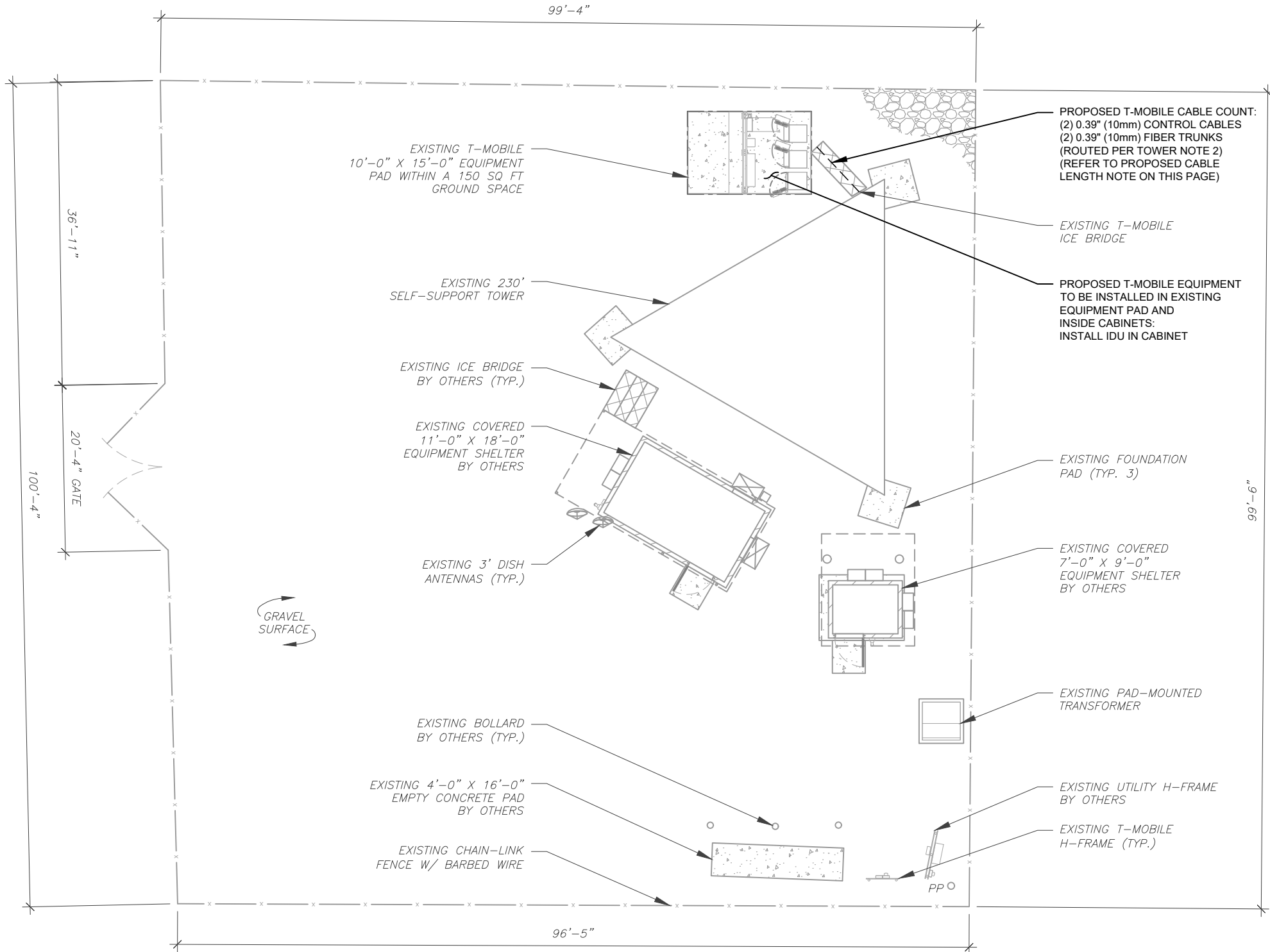
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SITE PLAN NOTES:

1. THIS SITE PLAN REPRESENTS THE BEST PRESENT KNOWLEDGE AVAILABLE TO THE ENGINEER AT THE TIME OF THIS DESIGN. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO CONSTRUCTION AND VERIFY ALL EXISTING CONDITIONS RELATED TO THE SCOPE OF WORK FOR THIS PROJECT.
2. ICE BRIDGE, CABLE LADDER, COAX PORT, AND COAX CABLE ARE SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL CONFIRM THE EXACT LOCATION OF ALL PROPOSED AND EXISTING EQUIPMENT AND STRUCTURES DEPICTED ON THIS PLAN. BEFORE UTILIZING EXISTING CABLE SUPPORTS, COAX PORTS, INSTALLING NEW PORTS OR ANY OTHER EQUIPMENT, CONTRACTOR SHALL VERIFY ALL ASPECTS OF THE COMPONENTS MEET THE ATC SPECIFICATIONS.

LEGEND	
⊗	GROUNDING TEST WELL
ATS	AUTOMATIC TRANSFER SWITCH
B	BOLLARD
CSC	CELL SITE CABINET
D	DISCONNECT
E	ELECTRICAL
F	FIBER
GEN	GENERATOR
G	GENERATOR RECEPTACLE
HH, V	HAND HOLE, VAULT
IB	ICE BRIDGE
K	KENTROX BOX
LC	LIGHTING CONTROL
M	METER
PB	PULL BOX
PP	POWER POLE
T	TELCO
TRN	TRANSFORMER
— x —	CHAINLINK FENCE

- PROPOSED CABLE NOTES:**
1. ESTIMATED LENGTH OF PROPOSED CABLE IS **250'**. ESTIMATED LENGTH OF CABLE WAS PROVIDED BY CUSTOMER OR CALCULATED BY ADDING THE RAD CENTER AND THE DISTANCE FROM THE SHELTER ENTRY PLATE TO THE TOWER (ALONG THE ICE BRIDGE) AND A SAFETY FACTOR MEASUREMENT OF 15% (OF THE TWO PREVIOUS VALUES). CDS DEFER TO GREATEST CABLE LENGTH.
2. ROUTE PROPOSED CABLES ALONG SAME PATH AS EXISTING CABLES AND IN ACCORDANCE WITH STRUCTURAL ANALYSIS. WHERE POSSIBLE UTILIZE EXISTING CABLE SUPPORT STRUCTURES AS PROVIDED FOR CARRIER TO ADEQUATELY SECURE CABLES, USING EITHER APPROPRIATELY SIZED STAINLESS STEEL SNAP-INS OR MOUNTING HARDWARE AND BRACKETS AS SPECIFIED BY CABLE MANUFACTURER. OTHERWISE, ATTACH CABLES TO HORIZONTAL OR DIAGONAL TOWER MEMBERS USING PROPOSED STAINLESS STEEL ADAPTERS (DO NOT ATTACH TO TOWER LEG).



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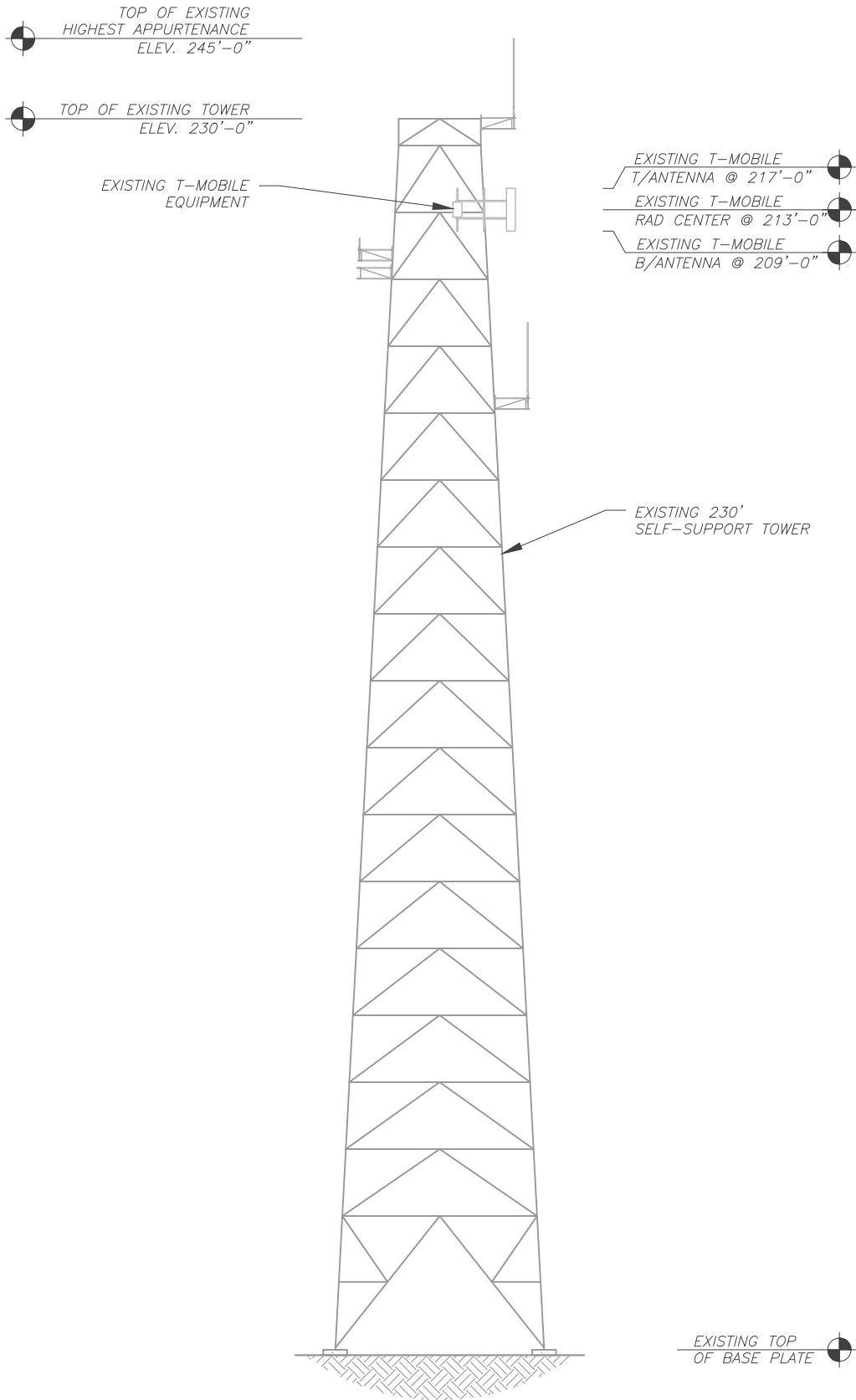
DETAILED SITE PLAN

SHEET NUMBER:

C-101

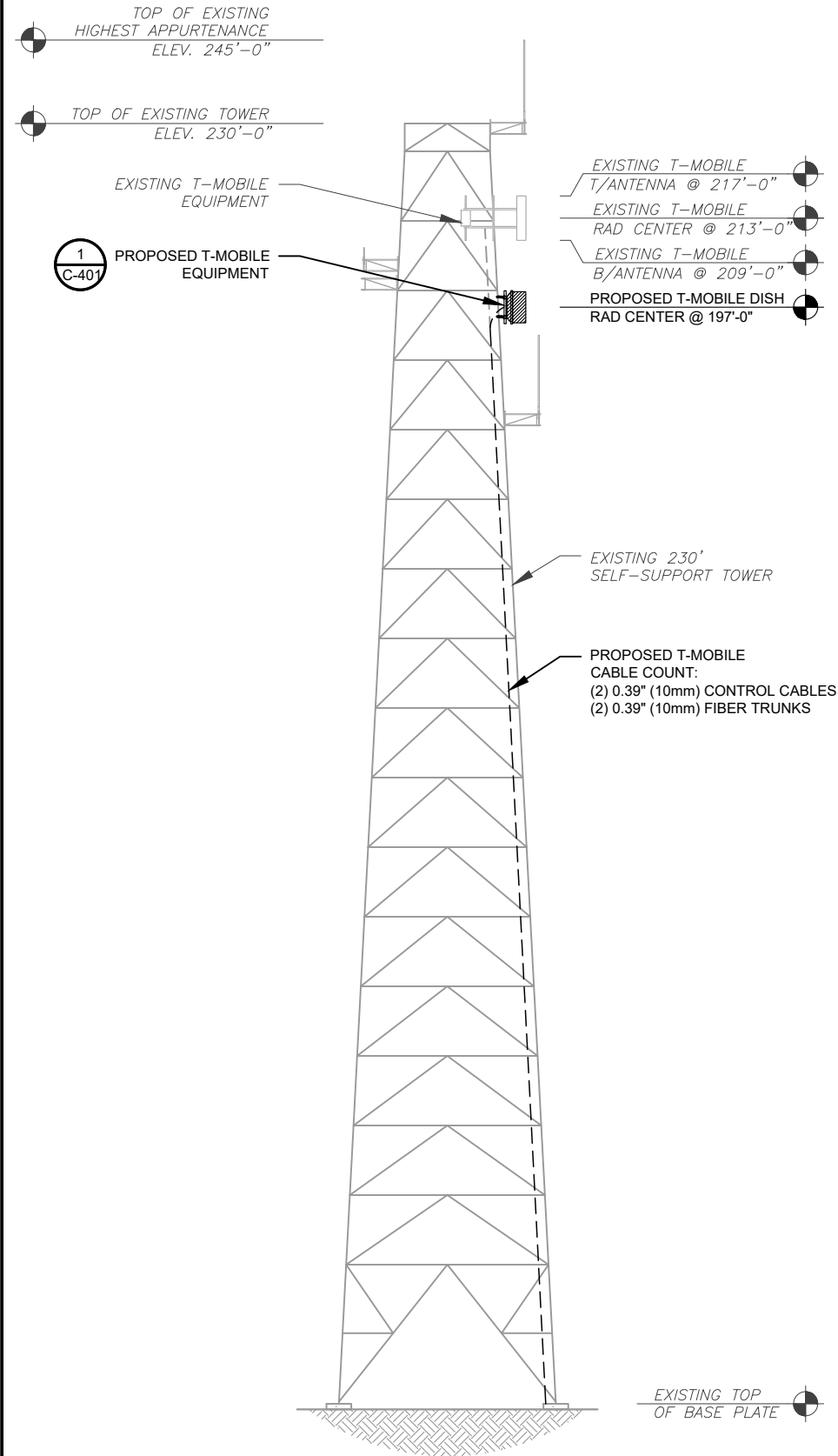
REVISION:

0



1 EXISTING TOWER ELEVATION
SCALE: N.T.S.


FINAL CABLING SUMMARY		
COAX / CONTROL	HYBRID/FIBER	STATUS
(2) 0.39" (10mm)	(2) 0.39" (10mm)	ADD



2 PROPOSED TOWER ELEVATION
SCALE: N.T.S.


PER MOUNT ANALYSIS COMPLETED BY AMERICAN TOWER CORPORATION, DATED JUNE 27, 2025, THE PROPOSED MOUNT CAN ADEQUATELY SUPPORT THE PROPOSED LOADING.

- TOWER NOTES:
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM WITH THE PROJECT MANAGER THAT THEY HAVE THE MOST RECENT VERSION OF THE STRUCTURAL ANALYSIS BEFORE COMMENCING WORK. EXISTING AND PROPOSED TOWER APPURTENANCES, MOUNTS, AND ANTENNAS ARE SHOWN BASED ON THE STRUCTURAL ANALYSIS.
 - WHERE APPLICABLE, ALL NEW ANTENNAS, EQUIPMENT, MOUNTS, CABLING, ETC. SHALL BE PAINTED/SOCKED TO MATCH EXISTING EQUIPMENT IN ACCORDANCE WITH FAA, JURISDICTION, AND/OR OTHER LOCAL REQUIREMENTS.
 - ROUTE PROPOSED CABLES ALONG SAME PATH AS EXISTING CABLES AND IN ACCORDANCE WITH STRUCTURAL ANALYSIS. WHERE POSSIBLE UTILIZE EXISTING CABLE SUPPORT STRUCTURES AS PROVIDED FOR CARRIER TO ADEQUATELY SECURE CABLES, USING EITHER APPROPRIATELY SIZED STAINLESS STEEL SNAP-INS OR MOUNTING HARDWARE AND BRACKETS AS SPECIFIED BY CABLE MANUFACTURER. OTHERWISE, ATTACH CABLES TO HORIZONTAL OR DIAGONAL TOWER MEMBERS USING PROPOSED STAINLESS STEEL ADAPTERS (DO NOT ATTACH TO TOWER LEG).
 - TOWER ELEVATION DEPICTION MAY NOT REFLECT ALL EQUIPMENT INCLUDED IN STRUCTURAL ANALYSIS. REFER TO STRUCTURAL ANALYSIS FOR FULL TOWER LOADING.



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TEP OPCO, LLC



SEAL: 08/08/25

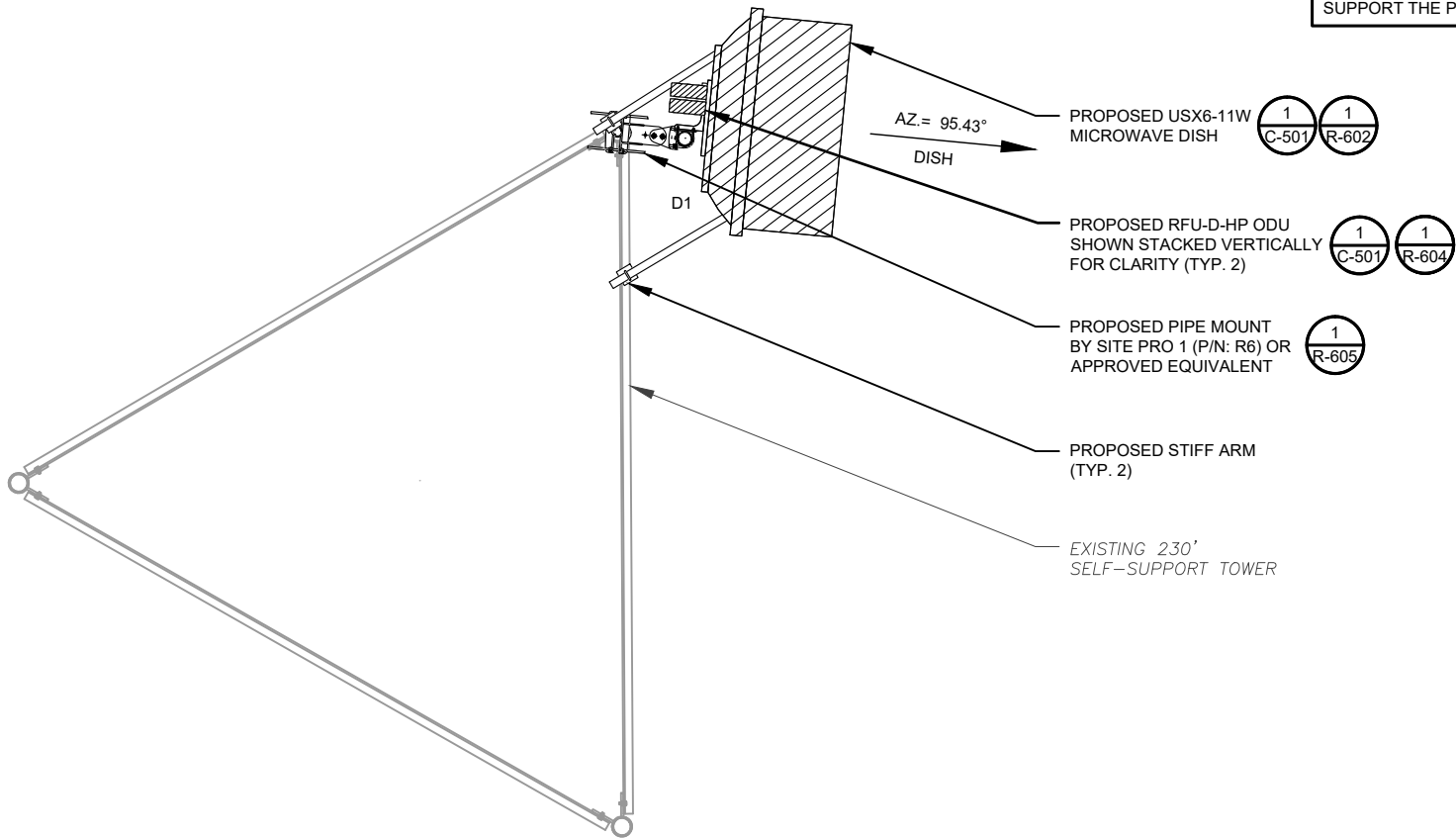
T-Mobile

DATE DRAWN:	08/08/25
ATC JOB NO:	15342242
CUSTOMER NAME:	SL04748B
CUSTOMER ID:	SL04748B

TOWER ELEVATION

SHEET NUMBER: C-201	REVISION: 0
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PER MOUNT ANALYSIS COMPLETED BY AMERICAN TOWER CORPORATION, DATED JUNE 27, 2025, THE PROPOSED MOUNT CAN ADEQUATELY SUPPORT THE PROPOSED LOADING.

1 FINAL MICROWAVE PLAN
SCALE: N.T.S.

FINAL MICROWAVE SCHEDULE								
LOCATION				MICROWAVE SUMMARY			NON MICROWAVE SUMMARY	
SECTOR	RAD	AZ	POS	MICROWAVE	BAND	STATUS	ADDITIONAL TOWER MOUNTED EQUIPMENT	STATUS
DISH	197°	95.43°	D1	USX6-11W	-	ADD	(2) RFU-D-HP	ADD

- NOTES
1. CONFIRM WITH T-MOBILE REP FOR APPLICABLE UPDATES/REVISIONS AND MOST RECENT RFDS FOR NSN CONFIGURATION (CONFIG). GC TO CAP ALL UNUSED PORTS.
 2. CONFIRM SPACING OF PROPOSED EQUIP DOES NOT CAUSE TOWER CONFLICTS NOR IMPEDE TOWER CLIMBING PEGS.
 3. TEP DID NOT VERIFY THE EXISTING LOADING. LOADING DATA PROVIDED BY ATC AND T-MOBILE.

STATUS ABBREVIATIONS

RMV: TO BE REMOVED
RMN: TO REMAIN
REL: TO BE RELOCATED
ADD: TO BE ADDED

CABLE LENGTHS FOR JUMPERS

JUNCTION BOX TO RRU: 15'
RRU TO ANTENNA: 10'

2 EQUIPMENT SCHEDULES

FINAL FIBER DISTRIBUTION / OVP BOX		FINAL CABLING SUMMARY		
MODEL NUMBER	STATUS	COAX / CONTROL	HYBRID/FIBER	STATUS
-	-	(2) 0.39" (10mm)	(2) 0.39" (10mm)	ADD



PLANS PREPARED BY:



326 TRYON ROAD
RALEIGH, NC 27603-3530
OFFICE: (919) 661-6351
www.tepgroup.net

TEP IS A FAMILY OF COMPANIES LICENSED TO PROVIDE DIFFERENT SERVICES IN DIFFERENT JURISDICTIONS. DEPENDING ON THE JURISDICTION, PROFESSIONAL ENGINEERING AND LAND SURVEYING SERVICES ARE PROVIDED BY TEP OPCO LLC, A DELAWARE LIMITED LIABILITY COMPANY, TEP ENGINEERING, LLC, A NORTH CAROLINA PROFESSIONAL LIMITED LIABILITY COMPANY, OR MMH ENGINEERING, LLC, A NEW YORK PROFESSIONAL LIMITED LIABILITY COMPANY. GENERAL CONTRACTOR SERVICES ARE PROVIDED BY TEP OPCO LLC, A DELAWARE LIMITED LIABILITY COMPANY. WE ACQUIRE THE REQUISITE LICENSES IN EACH STATE. ADDITIONAL INFORMATION CAN BE OBTAINED FROM THE COMPANY.

REV.	DESCRIPTION	BY	DATE
A	PRELIMINARY	DMB	07/09/25
0	100% CONSTRUCTION	RMJ	08/08/25

ATC SITE NUMBER:
9097
ATC SITE NAME:
OGDEN - I-15
T-MOBILE SITE NAME:
SL04748B
SITE ADDRESS:
OFF OF 12TH STREET;
SECTION 18, TOWNSHIP 6 NORTH
RANGE 3 WEST, SALT I
OGDEN, UT 84404-9760

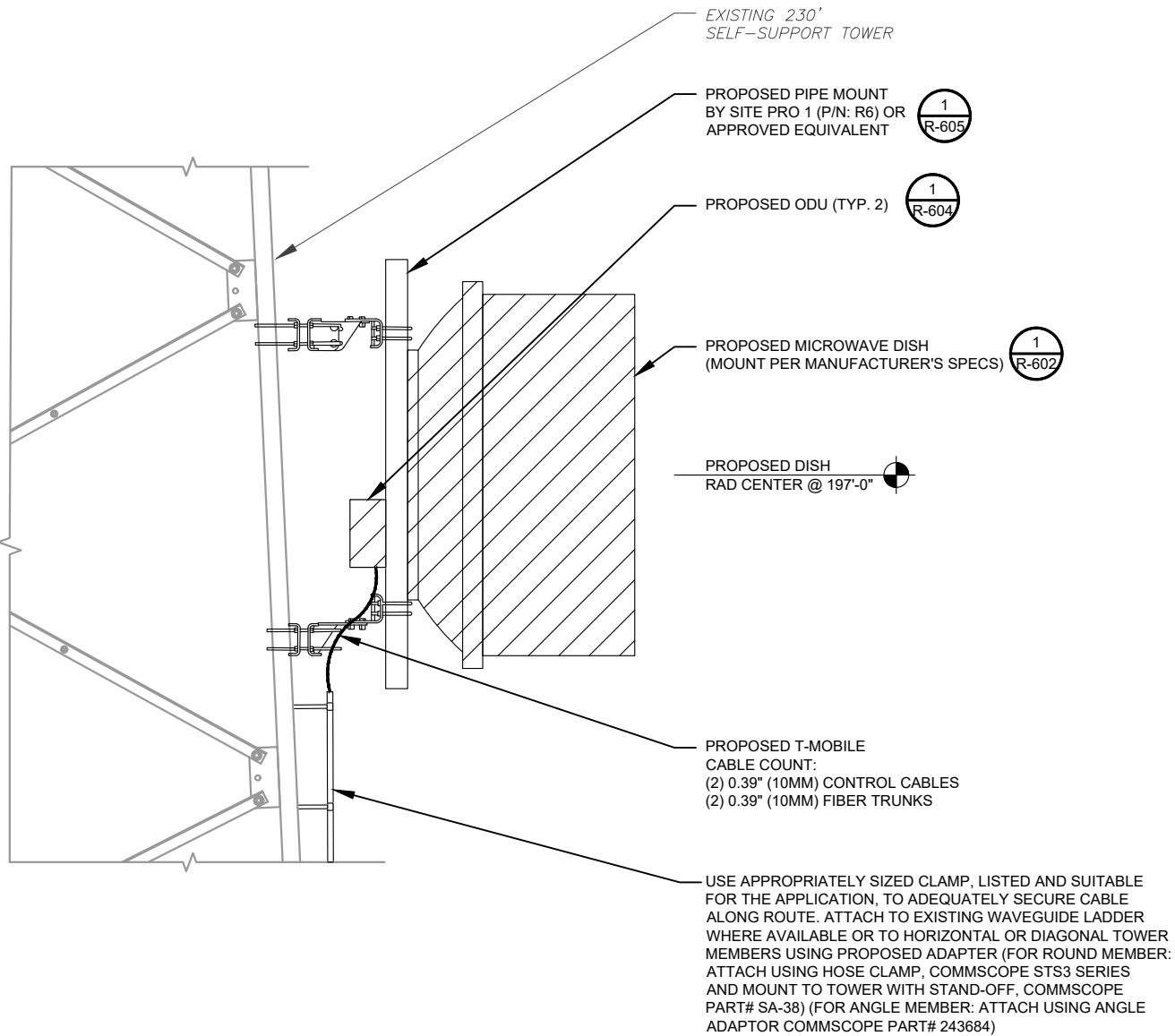


SEAL: 08/08/25

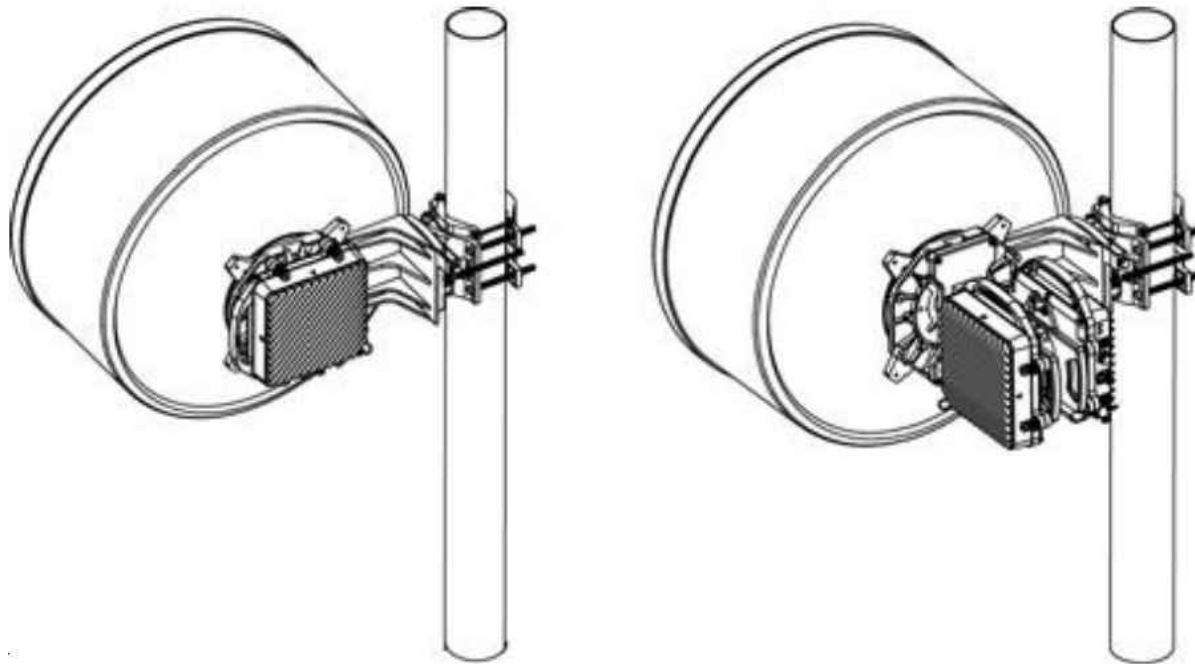


DATE DRAWN:	08/08/25
ATC JOB NO:	15342242
CUSTOMER NAME:	SL04748B
CUSTOMER ID:	SL04748B

MICROWAVE INFORMATION & SCHEDULE	
SHEET NUMBER: C-401	REVISION: 0



1 PROPOSED MICROWAVE MOUNTING DETAIL (ELEVATION)
SCALE: NOT TO SCALE



1 PROPOSED ODU MOUNTING DETAIL
SCALE: NOT TO SCALE



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REV.	DESCRIPTION	BY	DATE
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B	100% CONSTRUCTION	RMJ	08/08/25

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9097
ATC SITE NAME:
OGDEN - I-15
T-MOBILE SITE NAME:
SL04748B
SITE ADDRESS:
OFF OF 12TH STREET;
SECTION 18, TOWNSHIP 6 NORTH
RANGE 3 WEST, SALT I
OGDEN, UT 84404-9760



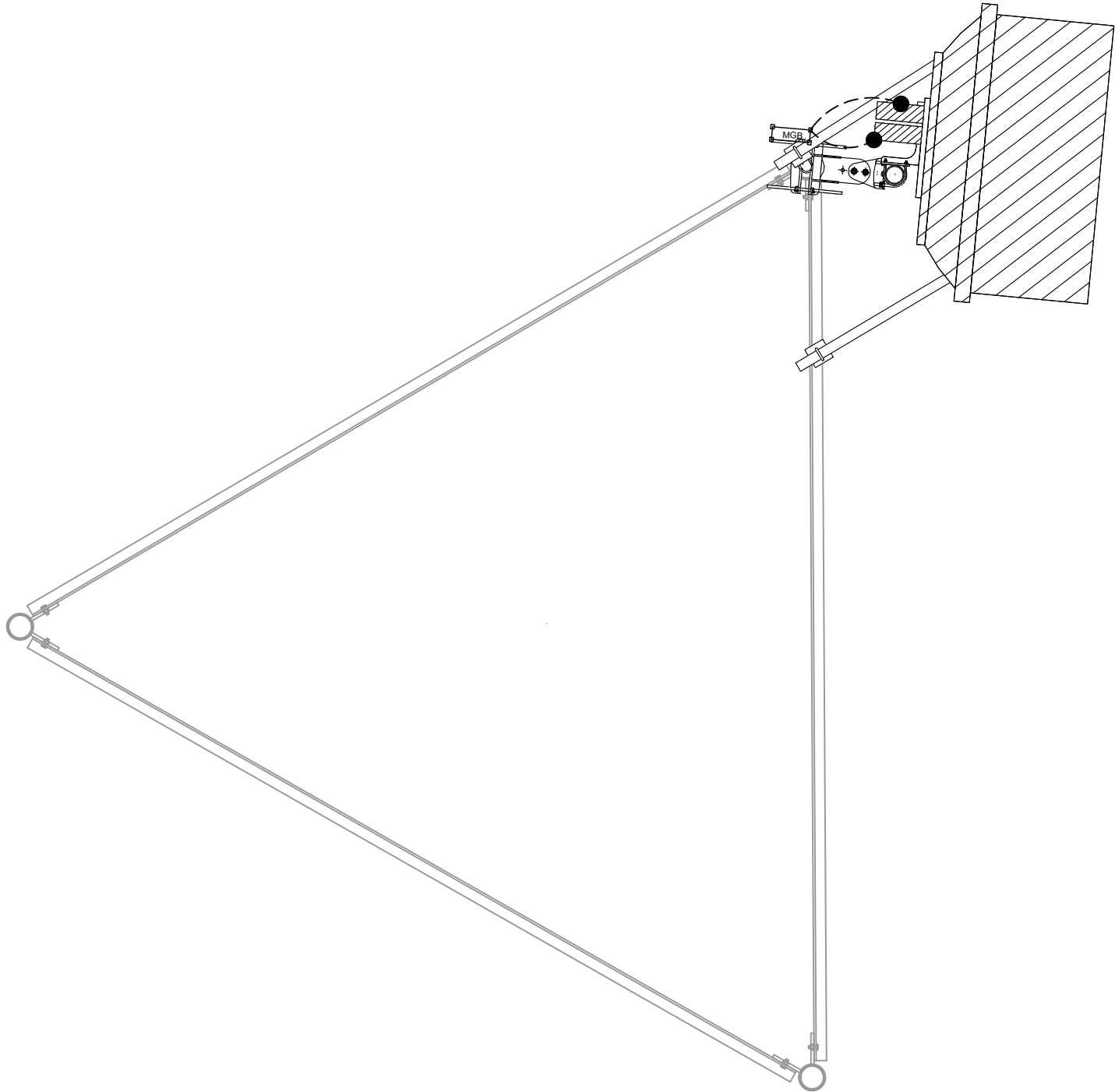
SEAL: 08/08/25





DATE DRAWN:	08/08/25
ATC JOB NO:	15342242
CUSTOMER NAME:	SL04748B
CUSTOMER ID:	SL04748B

CONSTRUCTION
DETAILS

SHEET NUMBER:	REVISION:
C-501	0



LEGEND	
	MECHANICAL CONNECTION
	MASTER GROUND BAR

1

FINAL MICROWAVE GROUNDING PLAN

SCALE: N.T.S.



PLANS PREPARED BY:



326 TRYON ROAD
RALEIGH, NC 27603-3530
OFFICE: (919) 661-6351
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REV.	DESCRIPTION	BY	DATE
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0	100% CONSTRUCTION	RMJ	08/08/25

ATC SITE NUMBER:
9097
ATC SITE NAME:
OGDEN - I-15
T-MOBILE SITE NAME:
SL04748B
SITE ADDRESS:
OFF OF 12TH STREET;
SECTION 18, TOWNSHIP 6 NORTH
RANGE 3 WEST, SALT I
OGDEN, UT 84404-9760



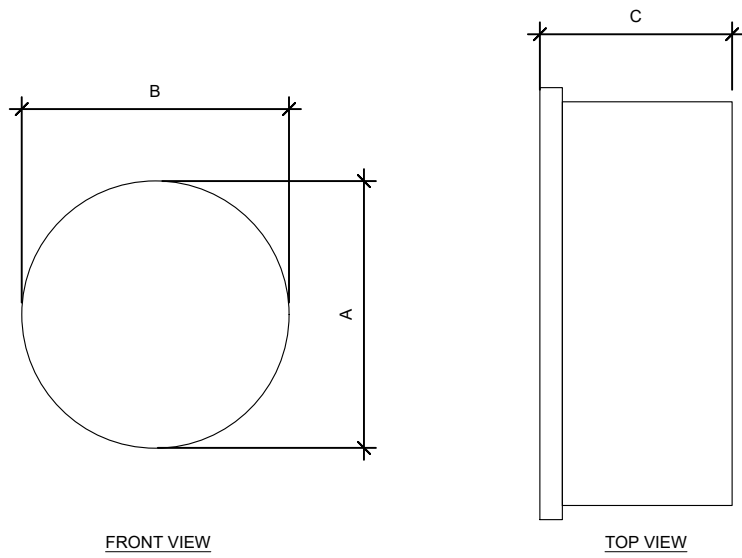
SEAL: 08/08/25



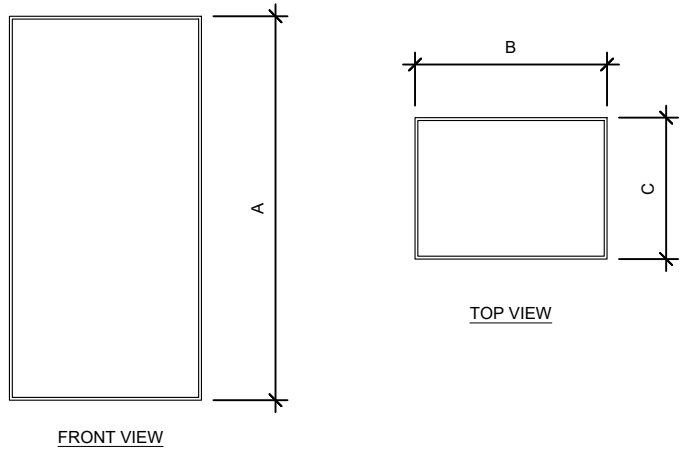
DATE DRAWN:	08/08/25
ATC JOB NO:	15342242
CUSTOMER NAME:	SL04748B
CUSTOMER ID:	SL04748B

GROUNDING PLAN

SHEET NUMBER:	REVISION:
E-101	0

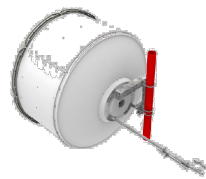


MICROWAVE SPECIFICATIONS				
MICROWAVE MODEL	A	B	C	WEIGHT (LBS)
USX6-11W	6.23'	6.23'	5.02'	198.4



ODU SPECIFICATIONS				
ODU MODEL	A	B	C	WEIGHT (LBS)
RFU-D-HP	12.6"	11.3"	4.2"	26.5

USX6-11W



1.8m | 6ft Sentinel® Ultra High Performance, Super High XPD Antenna, dual-polarized, 10.000 – 11.700 GHz

Product Classification

Product Type: Microwave antenna
Product Brand: Sentinel®

General Specifications

Antenna Type: USX - Sentinel® Ultra High Performance, Super High XPD Antenna, dual-polarized
Polarization: Dual
Side Struts, Included: 1
Side Struts, Optional: 1

Dimensions

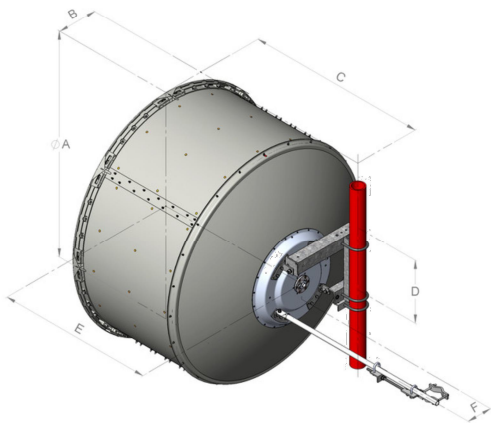
Diameter, nominal: 1.8 m | 6 ft

Electrical Specifications

Operating Frequency Band: 10.000 – 11.700 GHz
Gain, Low Band: 42.9 dBi
Gain, Mid Band: 43.6 dBi
Gain, Top Band: 44.3 dBi
Boresite Cross Polarization Discrimination (XPD): 40 dB
Front-to-Back Ratio: 85 dB
Beamwidth, Horizontal: 1.1 °
Beamwidth, Vertical: 1.1 °
Return Loss: 26 dB
VSWR: 1.1
Radiation Pattern Envelope Reference (RPE): 7375 | 7402
Electrical Compliance: ACMA FX03_10a | ACMA FX03_11a | Canada SRSP 310.5 | Canada SRSP 310.7 Part A | Canada SRSP 310.7 Part B | ETSI 302 217

USX6-11W

Antenna Dimensions and Mounting Information



Dimensions in inches (mm)						
Antenna size, ft (m)	A	B	C	D	E	F
6 (1.8)	74.8 (1899)	13.4 (340)	59.8 (1520)	20.9 (530)	51.8 (1315)	8.4 (214)

Wind Forces at Wind Velocity Survival Rating

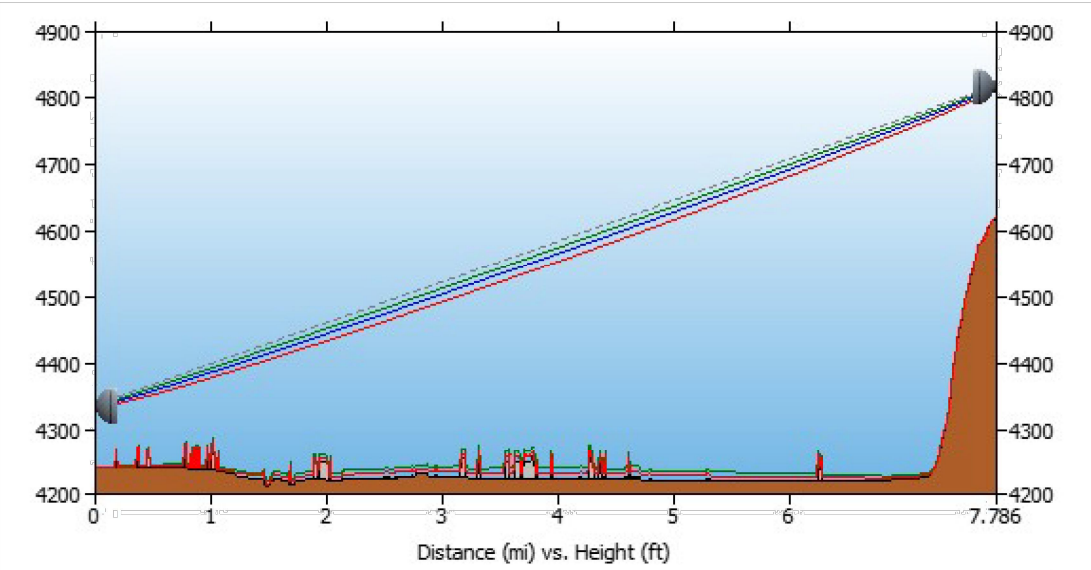
Axial Force (FA): 6960 N | 1,564.671 lbf
Angle α for MT Max: -130 °
Side Force (FS): 2049 N | 460.634 lbf
Twisting Moment (MT): 4948 N-m | 43,793.488 in lb
Force on Inboard Strut Side: 6187 N | 1,390.893 lbf
Zcg without Ice: 498 mm | 19.606 in
Zcg with 1/2 in (12 mm) Radial Ice: 689 mm | 27.126 in
Weight with 1/2 in (12 mm) Radial Ice: 291 kg | 641.544 lb

iQ.link — Link Budget Report

Date Printed: [DATE]
Create Date: 25-FEB-2025

Link ID: 4010023
Link Name: SL01312A_SL04748B

Region: West
Created By: KSalced20



Path length (7.79 mi)

SL01312A		Frequency (GHz) = 11.00 GHz		SL04748B	
Latitude:	41-14-39.5 N	K1:	[PL-K1]	Latitude:	41-15-18.3 N
Longitude:	112-05-15.9 W	%F1:	[PL-F1]	Longitude:	112-14-11.6 W
Azimuth:	275.52 Deg	K2:	[PL-K2]	Azimuth:	95.43 Deg
Elevation:	4238.85 ft	%F2:	[PL-F2]	Elevation:	4619.42 ft
Antenna CL:	95.00 ft AGL	K3:	[PL-K3]	Antenna CL:	197.00 ft AGL
		%F3:	[PL-F3]		

Transmission details		
SITE ID:	SL01312A	SL04748B
[CLUSTER_ID_LABEL]:	[CLUSTER_ID_A]	[CLUSTER_ID_B]
CALL_SIGN:	WSIF828	WSIF838
ASR #:		1018738
AAV_CONTRACT_ID:	QWE500	[AAV_CONTRACT_ID_B]
AAV_CONTRACT_STATUS:	Selected	Not Available
Ethernet Installed:	[1_95_STATUS_A]	[1_95_STATUS_B]
Latitude:	41-14-39.5 N	41-15-18.3 N
Longitude:	112-05-15.9 W	112-14-11.6 W
Azimuth (deg):	275.52 Deg	95.43 Deg
Vertical angle (deg):	0.63 Up	0.71 Down
Elevation:	4238.85 ft	4619.42 ft
Antenna model:	USX6-11W	USX6-11W
Antenna manufacturer:	ANDREW CORPORATION	ANDREW CORPORATION
Antenna Id:	291	291
Antenna gain (dBi):	43.60 dBi	43.60 dBi
Antenna diameter:	5.91 ft	5.91 ft
Antenna CL:	95.00 ft AGL	197.00 ft AGL
Diversity Antenna model:		
Diversity Antenna manufacturer:		
Diversity Antenna Id:		
Diversity Antenna gain (dBi):		
Diversity Antenna diameter:		
Diversity Antenna CL:		
Branch Loss Tx/Rx (dB):	5.10 dB/5.10 dB	4.60 dB/4.60 dB
Attenuator Common/Tx/Rx (dB):		
Waveguide #1 Model, Len, Loss(dB):		
Waveguide #2 Model, Len, Loss(dB):		
Waveguide #3 Model, Len, Loss(dB):		
Total Waveguide Loss (dB):		
Other Losses (dB):	0.00 dB	0.00 dB
Frequency (GHz):	11.00 GHz	
Path length:	7.79 mi	
Free space loss (dB):	135.24 dB	
Atmospheric absorption loss (dB):	0.18 dB	
Obstruction Loss (dB):	0.00 dB (oLOS)	
Field margin (dB):	1.00 dB	
Net path loss (dB):	58.92 dB	58.92 dB
Configuration:	4+0/DP/RM	4+0/DP/DM
Radio model:	IP20D-HP11-80X-A_4501	IP20D-HP11-80X-A_4501
Radio manufacturer:	Ceragon Networks	Ceragon Networks



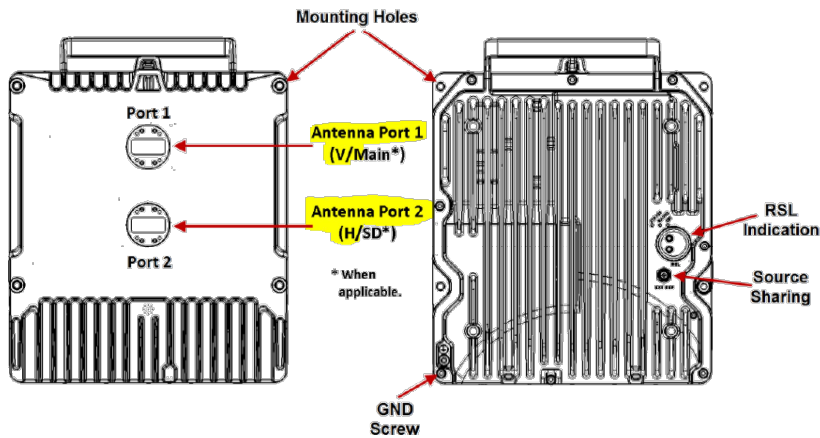
RFU-D HP Overview and Wiring Diagram

Refer to the RFU-D Installation Guide for instructions on proper grounding of the RFU-D, Lightning Protector and Ethernet cabling. Information can also be found in the Installation Guide on proper cable installation.

Follow the below guidelines for maximum cable lengths.

Interface	Cable Type	Maximum Length
Optical	Fiber	300m
	CAT-5e (24 AWG)	150m
Electrical	CAT-6a (22 AWG)	150m
	DC (14 AWG)	100m
DC Power	DC (12 AWG)	180m
	DC (10 AWG)	101m-300m

RFU-D HP Interfaces



- PWR: DC power interface (-48VDC)
- P1: RFU Interface (RJ-45)
- P2: RFU Interface (SFP)
- P3: Data Sharing
- P4: Reserved for future use.

Note: Note that in RFU-D-HP, Port 1 is the upper port, located closest to the handle, and Port 2 is the lower port, located closest to the Ethernet ports.

Table 178: RFU-D Mechanical Specifications (including diplexer unit)

RFU-D Dimensions	Height: 9.05 inches
	Width: 9.17 inches
	Depth: 3.85 inches
	Weight: 14.33 lbs.

Table 179: RFU-D-HP Mechanical Specifications (including diplexer or OCU unit)

RFU-D-HP Dimensions	Height: 12.56 inches
	Width: 11.26 inches
	Depth: 4.21 inches
	Weight: 26.5 lbs.

ANGLE CALIBRATING PROCEDURE:
1. MEASURE TOWER TAPER
AND PICK LOWER BRACKET HOLE"
HOLE A = -2.6° TO 2.6°
HOLE B = 1.6° TO 6.8°

2. USE CALIBRATING BOLT
TO ADJUST FRAME TO
DESIRED TAPER

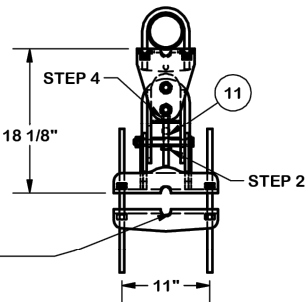
3. TORQUE LOCKING BOLTS
TO 100 FT-LBS

4.0 ADVANCE LOCKING NUT
TO POSITIONING PLATE,
THEN TIGHTEN.

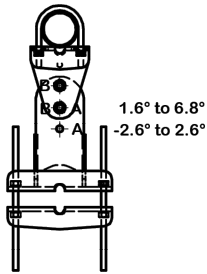
ROUND LEG SIZES
1-1/2" TO 9-1/2" DIA.

ANGLE LEG SIZES
3" TO 6"

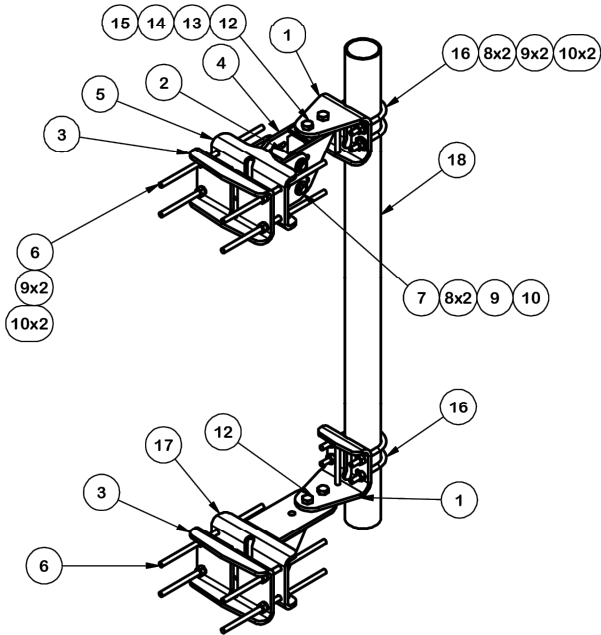
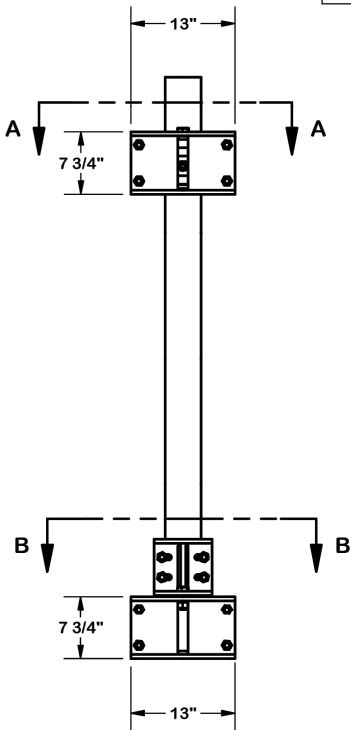
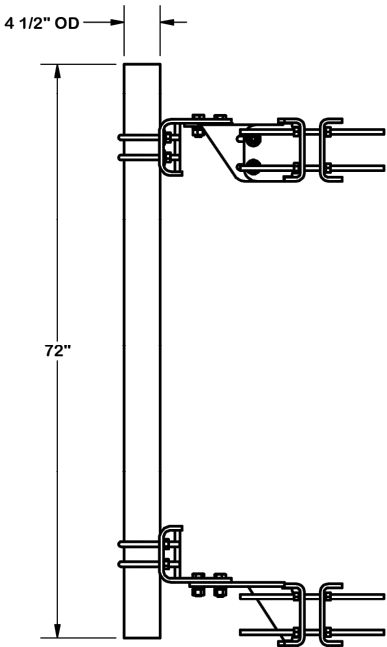
FOR LARGE LEG SIZE ADAPTER:
SEE PART# BCAM-HDLL



SECTION A-A
UPPER



SECTION B-B
LOWER



PARTS LIST						
ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	2	X-R6-BPW	R6 BENT PLATE WELDMENT		14.26	28.52
2	1	X-HDCAMSP	POSITIONING PLATE WELDMENT FOR BCAM-HD		2.58	2.58
3	2	X-LCBP4	BENT BACKING PLATE	13 in	20.04	40.09
4	1	X-HDCAMSS	ANGLE ADJUSTMENT WELDMENT FOR BCAM-HD		16.39	16.39
5	1	X-HDCAMTBW	CLAMP WELDMENT FOR BCAM-HD		33.86	33.86
6	8	G58R-18	5/8" x 18" THREADED ROD (HDG.)		1.57	12.54
7	2	G5807	5/8" x 7" HDG HEX BOLT GR5 FULL THREAD	7 in	0.70	1.41
8	13	G58FW	5/8" HDG USS FLATWASHER	1/8 in	0.07	0.92
9	26	G58LW	5/8" HDG LOCKWASHER		0.03	0.68
10	27	G58NUT	5/8" HDG HEAVY 2H HEX NUT		0.13	3.51
11	1	G5806	5/8" x 6" HDG HEX BOLT GR5 FULL THREAD	6 in	0.62	0.62
12	4	A34214	3/4"-10 X 2-1/4" A325 BOLT	2 1/4 in	0.47	1.89
13	4	G34FW	3/4" HDG USS FLATWASHER		0.06	0.24
14	4	G34LW	3/4" HDG LOCKWASHER		0.04	0.17
15	4	G34NUT	3/4" HDG HEAVY 2H HEX NUT		0.21	0.85
16	4	X-UB5458	5/8" X 4-5/8" X 7" X 3" U-BOLT (HDG.)		1.54	6.14
17	1	X-MHTPHD	MULTI-HOLE TAPER PLATE WELDMENT		36.24	36.24
18	1	P472	4-1/2" X 72" SCH. 40 GALVANIZED PIPE	72 in	64.81	64.81
TOTAL WT. #						264.78

FINISH:
HOT DIP GALVANIZED.

TOLERANCE NOTES

TOLERANCES ON DIMENSIONS, UNLESS OTHERWISE NOTED ARE:
SAWED, SHEARED AND GAS CUT EDGES ($\pm 0.030"$)
DRILLED AND GAS CUT HOLES ($\pm 0.030"$) - NO CONING OF HOLES
LASER CUT EDGES AND HOLES ($\pm 0.010"$) - NO CONING OF HOLES
BENDS AND ANGLES ARE $\pm 1/2$ DEGREE
ALL OTHER MACHINING ($\pm 0.030"$)
ALL OTHER ASSEMBLY ($\pm 0.060"$)

PROPRIETARY NOTE:
THE DATA AND TECHNIQUES CONTAINED IN THIS DRAWING ARE PROPRIETARY INFORMATION OF VALMONT INDUSTRIES AND CONSIDERED A TRADE SECRET. ANY USE OR DISCLOSURE WITHOUT THE CONSENT OF VALMONT INDUSTRIES IS STRICTLY PROHIBITED.

DESCRIPTION

R6 HEAVY-DUTY UNIVERSAL
PIPE MOUNT KIT WITH 4-1/2" PIPE



A valmont COMPANY

Locations:
New York, NY
Atlanta, GA
Los Angeles, CA
Plymouth, IN
Salem, OR
Dallas, TX
Tampa, FL

Engineering
Support Team:
1-888-753-7446

CPD NO.

SP1

DRAWN BY

KC8 11/16/2020

ENG. APPROVAL

CLASS

87

SUB

02

DRAWING USAGE

SHOP

CHECKED BY

PART NO.

R6

DWG. NO.

R6

PAGE
1 OF 1

1 PROPOSED PIPE MOUNT DETAIL

SCALE: N.T.S.

NOTE: THIS SHEET WAS CREATED BY OTHERS AND PROVIDED
AT THE REQUEST OF THE CUSTOMER WITHOUT EDIT.

SUPPLEMENTAL

SHEET NUMBER:

R-605

REVISION:

-



Mount Analysis Report

Mount Type : Stand-Off
ATC Asset Name : OGDEN - I-15
ATC Asset Number : 9097
Engineering Number : 15342242_C8_01
Mount Elevation : 197 ft
Proposed Carrier : T-Mobile
Carrier Site Name : SL04748B
Carrier Site Number : SL04748B
Site Location : Off of 12th Street; Section 18, Township 6 North, Range 3
West, Salt I
Ogden, UT 84404-9760
41.2551, -112.2366
County : Weber
Date : June 27, 2025
Max Usage : 33%
Analysis Result : Pass

Prepared By:
Cristian Urquiza
Engineering Intern



Michael Berger
Digitally signed by Michael Berger
Date: 2025.06.27 12:50:57 -04'00'

Introduction

The purpose of this report is to summarize results of the mount analysis performed for T-Mobile at 197 ft.

Supporting Documents

Specifications Sheet:	Site Pro 1 R6, dated November 16, 2020
Radio Frequency Data Sheet:	RFDS ID #SL04748B, dated March 12, 2025
Reference Photos:	Site photos from 2022

Analysis

This mount was analyzed using American Tower Corporation’s Mount Analysis Program and RISA-3D

Basic Wind Speed:	103 mph (3-Second Gust)
Basic Wind Speed w/ Ice:	53 mph (3-Second Gust) w/ 0.24" radial ice concurrent
Codes:	ANSI/TIA-222-I / 2021 IBC
Exposure Category:	C
Risk Category:	II
Topographic Factor Procedure:	Method 1
Feature:	Flat
Crest Height (H):	438 ft
Crest Length (L):	3592 ft
Spectral Response:	Sds = 0.74, Sd1 = 0.48
Site Class:	D - Stiff Soil
Live Loads:	Lm = 500 lbs, Lv = 250 lbs

*Live Load(s) reduction is confirmed to either not govern or not be applicable

Conclusion

Based on the analysis results, the antenna mount meets the requirements per the applicable codes listed above. The mount can support the equipment as described in this report.

- Analysis based on new installation of Site Pro 1 R6 Stand-Off(s).

If you have any questions or require additional information, please reach out to your American Tower contact. If you do not have an American Tower contact and have an Engineering question, please contact MountAnalysis@americantower.com. Please include the American Tower site name, site number, and engineering number in the subject line for any questions.

SUPPLEMENTAL

SHEET NUMBER: R-606	REVISION: -
------------------------	----------------